Attorney's Docket No.: 13863-002001 / PH-749PCT-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Nishino, N., et al.

Art Unit : 1646

ial No.: 09/945,237

Examiner: Unknown

Filed

August 31, 2001

Title

: NOVEL CYCLIC TETRAPEPTIDE DERIVATIVES AND PHARMACEUTICAL

USES THEREOF

Commissioner for Patents P.O. Box 2327 Arlington, VA 22202

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed for filing in the above-referenced patent application is a Form PTO-1449, being submitted prior to the first Office Action on the merits. Applicants respectfully request consideration of the remarks and references set forth herein.

The following documents are enclosed herewith:

- copy of Form PTO-1449
- Postcard
- copies of cited references

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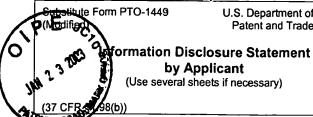
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Attorney's Docket No. 13863-002001

Application No. 09/945,237

Applicant

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August 31, 2001

Group Art Unit 1646

by Applicant (Use several sheets if necessary)

			U.S. Patent	Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner	Desig.	Document	Publication	Country or				slation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No
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	AG				DENTER	1600 2900		
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	Other Documents (include Author, Title, Date, and Place of Publication)					
Examiner	Desig.					
Initial	ID	Document				
	AI	Nishino et al., "Cyclic Tetrapeptide Hydroxamic Acids Related to Trapoxin B Inhibit Histone Deacetylase", Peptides, pp. 832-833, 1998				
	AJ	Tomizaki, et al., "Histone Deacetylase Inhibitors Based on Trapoxin B", Peptide Science, Vol. 35, pp. 181-184, 1998				
	AK	Nishino, et al., "Synthesis of Cyclic Tetrapeptides Containing Non-natural Imino Acids", Peptide Science, Vol. 35, pp. 189-192, 1998				
	AL	Tsukamoto, et al., "Synthesis and Activity of Cyl-1 Analogs having Hydroxamic Acid at Side Chain", Peptide Science, pp. 185-188, 1998				
	AM	Komatsu, et al., "Histone Deacetylase Inhibitors Up-regulate the Expression of Cell Surface MHC Class-I Molecules in B16/BL6 Cells", <u>Journal of Antibiotics</u> , Vol. 51, No. 1, pp. 89-91, January, 1998				
	AN	Yoshida, et al., "Histone deacetylase as a new target for cancer chemotherapy", <u>Cancer Chemotherapy and Pharmacology</u> Vol. 48, No. Suppl. 1, pp. S20-S26, July 1, 2001				
	AO	Furuma, et al., "Potent histone deacetylase inhibitors built from trichostatin A and cyclic tetrapeptide antibiotics including trapoxin", <u>Proceedings of the National Academy of Sciences</u> , Vol. 98, No. 1, pp. 87-92, January 2, 2001				

Examiner Signature	Date Considered			
EXAMINER: Initials citation considered. Draw line through citation if no	t in conformance and not considered. Include copy of this form with			

next communication to applicant.



Europäisches Patentamt

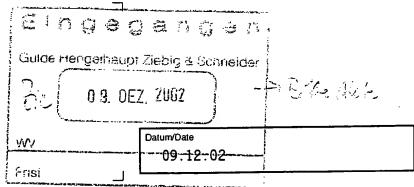
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Département à La Haye Division de la recherche

Ziebig, Marlene, Dr. Dipl.-Chem. Patentanwälte Gulde Hengelhaupt Ziebig & Schneider Schützenstrasse 15-17 10117 Berlin ALLEMAGNE



Zeichen/Ref./Réf.
P120501EP-Zie
Anmeldung Nr/Application No./Demande n°./Patent Nr./Patent No./Brevet n°.
00905381.0-2404-JP0001141

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire
Japan Energy Corporation

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 00 90 5381

 -1		PERED TO BE RELEVANT		
Category	Citation of document with of relevant pas	indication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
① x		US, 33, XP000985719	1-9	C07K5/12 A61K38/12
X	KIN-YA TOMIZAKI ET DEACETYLASE INHIBIT B"	AL: "HISTONE FORS BASED ON TRAPOXIN	1-9	
②	PEPTIDE SCIENCE, PR FOUNDATION, MINOO,, vol. 35, 1998, page ISSN: 1344-7661 * the whole documer	JP, es 181-184, XP000985575		
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3	PEPTIDE SCIENCE, PR FOUNDATION, MINOO,, vol. 35, 1998, page ISSN: 1344-7661 * the whole documen	JP, es 189-192, XP000985577		TECHNICAL FIELDS SEARCHED (Int.CI.7) CO7K A61K
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	ISSN: 1344-7661 * the whole documen			
		-/		
	The supplementary search repo set of claims valld and available	rt has been based on the last at the start of the search.		
	Place of search	Date of completion of the search		Examiner
	MUNICH	20 November 2002	Lõp	ez Garcia, F
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure		E : earlier patent doc after the filing dat her D : document cited in L : document cited fo	cument, but publice e n the application	shed on, or

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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 00 90 5381

	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with ir of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.C1.7)
A (5)	CELL SURFACE MHC CL B16/BL6 CELLS" JOURNAL OF ANTIBIOT RESEARCH ASSOCIATIO	ATE THE EXPRESSION OF ASS-I MOLECULES IN ICS, JAPAN ANTIBIOTICS N, TOKYO, JP, uary 1998 (1998-01), 55762	1-9	
т ⑥	a new target for ca CANCER CHEMOTHERAPY SPRINGER VERLAG, BE vol. 48, no. Suppl	AND PHARMACOLOGY, RLIN, DE, 1, 7-01), pages S20-S26,	1-9	TECHNICAL FIELDS
1	FURUMAI RYOHEI ET A deacetylase inhibit trichostatin A and antibiotics includi PROCEEDINGS OF THE SCIENCES OF THE UNI vol. 98, no. 1, 2 January 2001 (200 XP002221718 January 2, 2001 ISSN: 0027-8424 * the whole documen	ors built from cyclic tetrapeptide ng trapoxin." NATIONAL ACADEMY OF // TED STATES, 1-01-02), pages 87-92,	1-9	SEARCHED (Int.Cl.7)
	The supplementary search report set of claims valid and available	t has been based on the last at the start of the search.		
	Place of search	Date of completion of the search	<u>.</u> .	Examiner
	MUNICH	20 November 2002	Lõp	ez García, F
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		L : document cited for	cument, but publi te n the application or other reasons	ished on, or

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CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: